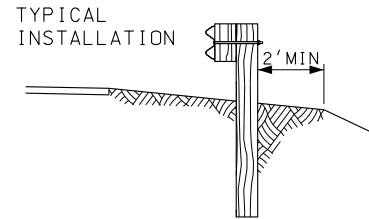
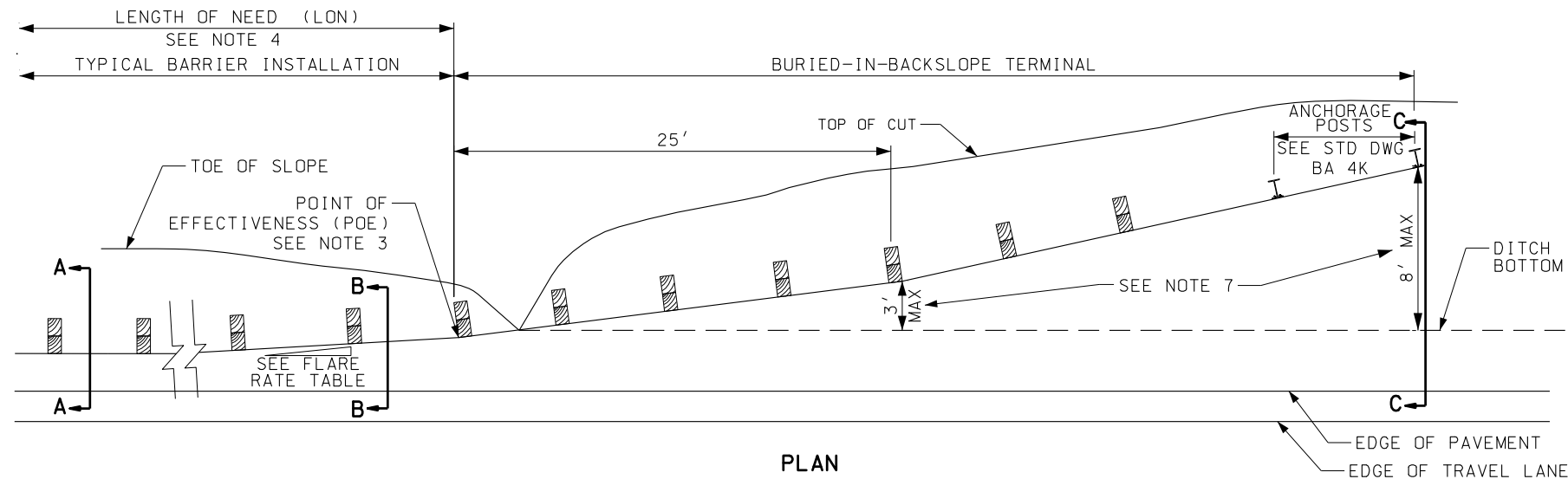
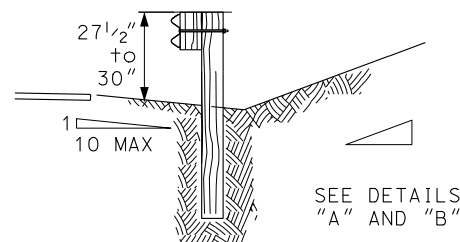


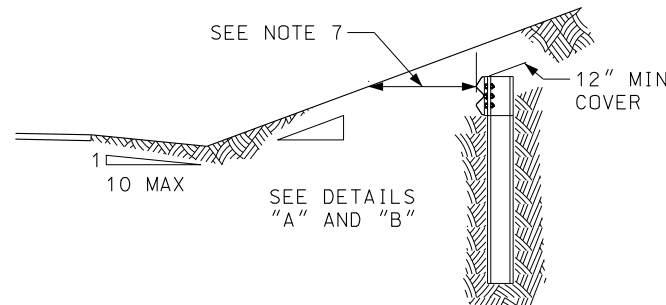
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SECTION A-A



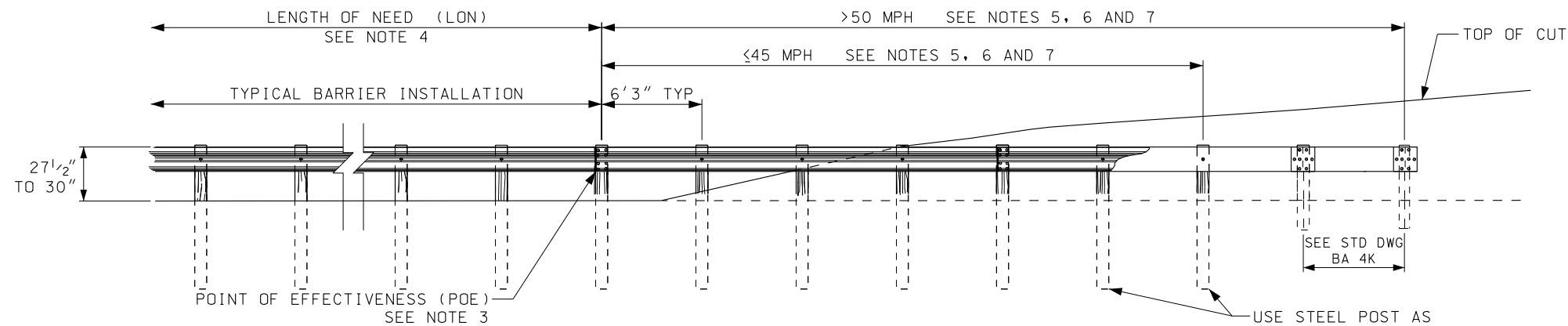
SECTION B-B



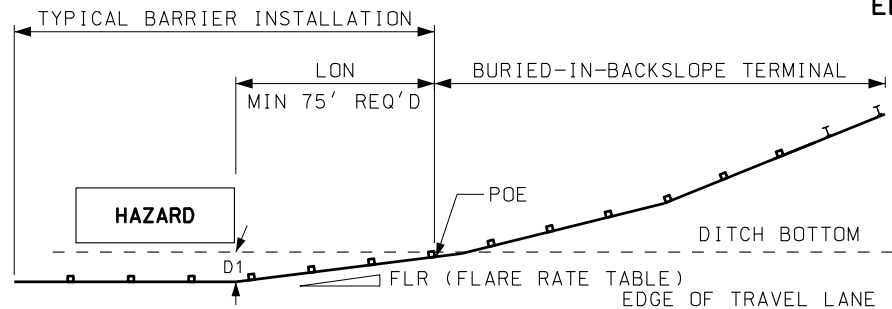
SECTION C-C

NOTES:

1. PRIOR TO USING THIS DESIGN, CONSULT AREA SUPERVISOR TO ENSURE NO NEED EXISTS FOR ACCESS BEHIND THE BARRIER INSTALLATION AND THAT DRAINAGE ISSUES ARE ADDRESSED.
2. DO NOT USE BURIED-IN-BACKSLOPE TERMINAL IN LOCATIONS WHERE THE BACKSLOPE IS FLATTER THAN 3:1, AND THERE IS NO DITCH OR A NARROW SHALLOW DITCH AND THE TOE OF SLOPE IS WITHIN 20 FEET OF THE TRAVEL LANE.
3. THE POINT OF EFFECTIVENESS (POE) IS AT THE RAIL FACE OF THE FIRST POST OF THE TERMINAL PRIOR TO CROSSING THE DITCH BOTTOM OR TOE OF SLOPE.
4. SEE DETAILS "A" AND/OR "B" FOR LENGTH OF NEED (LON) REQUIREMENTS AND BACKSLOPE REQUIREMENTS.
5. REFER TO STD DWG BA 4K FOR BURIED-IN-BACKSLOPE TERMINAL ANCHORAGE POST DETAILS.
6. CONSTRUCT BURIED IN BACKSLOPE TERMINALS AT 37 1/2' FOR SPEEDS 45 MPH AND LESS, AND 50' FOR SPEED 50 MPH AND GREATER.
7. INSTALLATION: STARTING AT THE "POE" SOFTLY BEND RAIL ELEMENT 3' MAXIMUM FROM THE TOE OF SLOPE AT THE 25' POINT OF TERMINAL. FROM THE 25' POINT OF THE TERMINAL TO THE END OF THE TERMINAL SOFTLY BEND RAIL BACK UNTIL THE 1' BURIAL HAS BEEN OBTAINED TO A MAXIMUM OF 8' FROM THE TOE OF SLOPE. IF THE MAXIMUM 8' OFFSET IS REACHED AND THE 1' BURIAL HAS NOT BEEN ACHIEVED, THE BURIED-IN-BACKSLOPE TERMINAL WILL BE SLOPED DOWN WHERE THE END IS 8' BEHIND THE TOE OF SLOPE AND 1' UNDER THE ORIGINAL GROUND LINE. THE BACK SLOPE AT THE ANCHORAGE POSTS SHOULD LOOK THE SAME AFTER INSTALLATION AS PRIOR TO INSTALLATION.
8. INSTALL A STABILIZATION MAT OVER DISTURBED AREA TO CONTROL EROSION, UNLESS DIRECTED DIFFERENTLY BY PROJECT SPECIFICATION OR ENGINEER.
9. USE IN ESTABLISHED SLOPES. DO NOT BUILD A MOUND TO USE THIS TERMINAL.



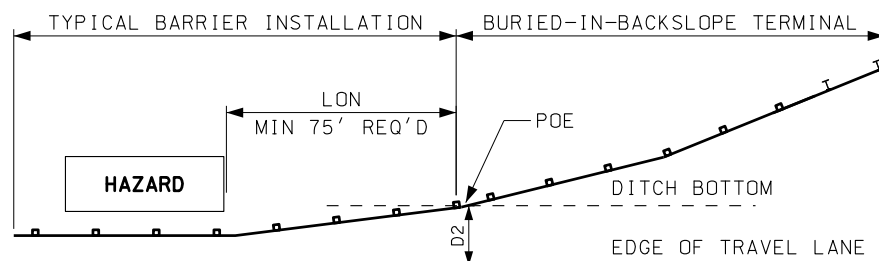
ELEVATION



$$LON = FLR \times D1$$

USE THIS DETAIL IF BACKSLOPE IS STEEPER 3:1.
THIS DETAIL APPLIES AT ALL SPEED LEVELS.

DETAIL A



$$\begin{aligned} \geq 50 \text{ MPH "LON"} &= 450 - (15 \times D2) \\ \leq 45 \text{ MPH "LON"} &= 250 - (15 \times D2) \end{aligned}$$

USE THIS DETAIL IF BACKSLOPE IS 3:1 TO A MINIMUM 4:1
SEE NOTE 6

DETAIL B

FLARE RATE TABLE (FLR)	
POSTED SPEED (mph)	RATE
40 OR LESS	9:1
45	10:1
50	11:1
55	12:1
60	14:1
65 AND GREATER	15:1

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

W-BEAM GUARDRAIL
BURIED IN
BACKSLOPE TERMINAL

STD DWG
BA 4I

REVISIONS

RECOMMENDED FOR APPROVAL
SALESMAN
CHAIRMAN STANDARDS COMMITTEE
APPROVED

JAN.01.2008

DATE

JAN.01.2008

DATE

DEPUTY DIRECTOR

STANDARD DRAWING TITLE

REMARKS

NO. DATE APPR.